

Product Name :
Digital Modulation- Demodulation Kit

Product Code :
SH196



Description :

Digital Modulation- Demodulation Kit

Technical Specification :

Digital Modulation- Demodulation Kit

With this board the students can study the operating principle of the digital communications using the most common techniques such as PCM modulation, PAM modulation, PFM modulation

Technical Specification:

PCM modulator and demodulator

8-bit coding with compression, $M\frac{1}{4}$ or A selectable through bridge

2 channels for transmission and 2 channels for reception

Possibility to use 1 or 2 digital channels

Integrated anti-aliasing and band limiting analogue filters in reception, capacitive switching type

Passing band from 300 Hz up to 3400 Hz

PAM signal generation, demodulation, transmission for each single channel

PAM modulator and demodulator

Two channel time division

Regeneration of the synchronism and channel signals

Sampled, but not quantified signal

PTM Signal Generation

Passing band from continuous to 4000Hz

PWM and PPM modulator and demodulator

Single channel with passing band from continuous to 4000 Hz

Regeneration of the synchronism signal
Conversion of the PWM signal to PPM and from the PPM signal to PWM
PCM signal generation and demodulation
PCM Signal Time-Division Multiplexing
PFM modulator and demodulator
Single channel with passing band from 300 Hz to 3400 Hz
Circuit realization with the use of a PLL
Delta modulator and demodulator Single channel with passing band from continuous to 3400 Hz Timing Ramp
signal generation Channel noise
Possibility to adjust the noise that is superimposed to both analogue and digital signals
Analogue filters 2 analogue filters with 3400 Hz limited band
Output amplifier 2 amplifiers able to pilot a small loudspeaker
Microphone amplifier
Microphone amplifier with automatic gain control
Channel bandwidth
Navigator software that allows students to perform their learning activities through a Personal Computer.

Naugralabequipments

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